

Model

Designation	NLE12.6CNL	220-240V/50Hz 1~	Sales code:	105H6376
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	12,55cm ³ / 0,77cu.in
Oil quantity	298cm ³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	2360cm ³ / 79,8fl.oz		
Weight	11,8kg / 26lbs		
Motor protection	1# internal		
Winding resistance main	5,9Ω (at 25°C)		
Winding resistance aux	10,8Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NLE12.6CNL

	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with NLE12.6CNL

	Conf. 1
Refrigerant	R290
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with NLE12.6CNL

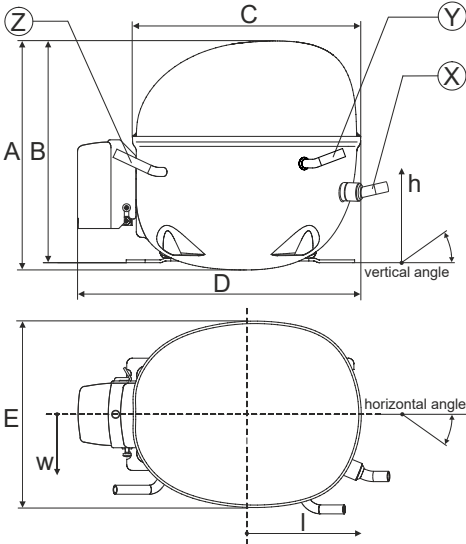
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	14,2A
RLA (rated load amps / 1s/ U(N))	2,7A
Cut in current (U(N))	14,2A

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Compressor dimensions

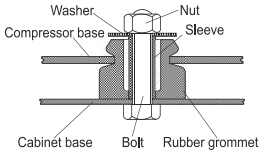
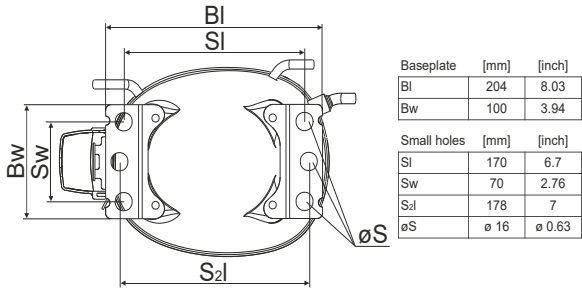
Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

Connectors		Suction X	Discharge Y	Process Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w	[mm]	132/69/57	94/102/81	-109/94/72
	[in]	5,2/2,7/2,2	3,7/4/3,2	-4,3/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

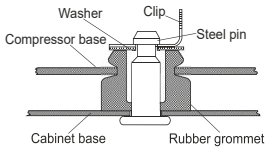


Compressor fixation

Bolt joint



Snap-on



Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

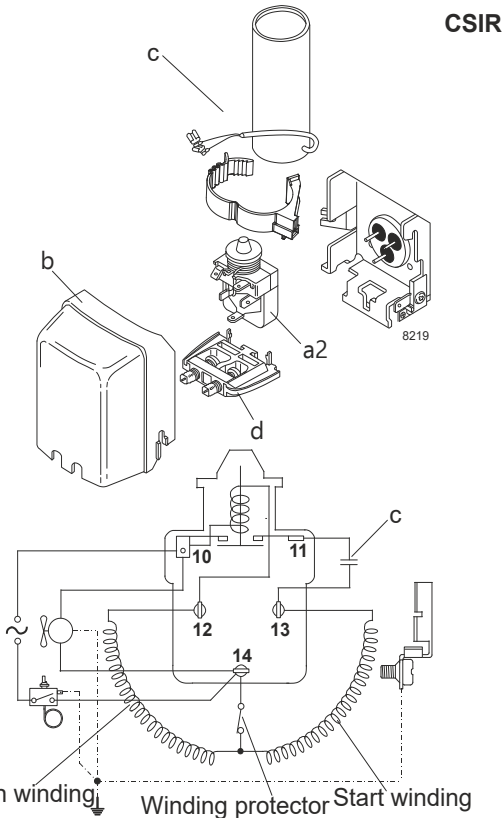
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	CCC

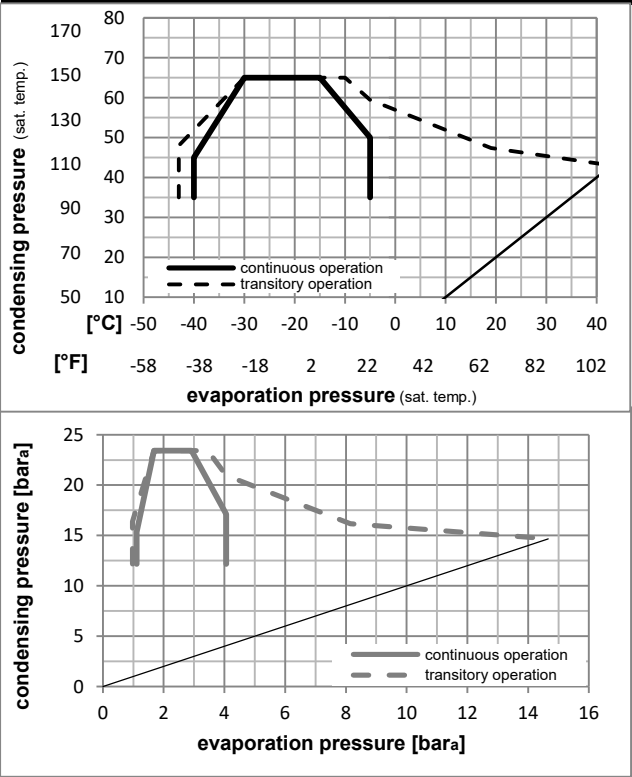
Electrical accessories / wiring diagram



Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Components (inci. and pre. assemb.)

a2	relay	117U7053
c	start capacitor (80µF)	117U5079
b	plastic cover	103N2011
d	cord relief	103N1010

Alternative comp.

a2	relay	117U7003
c	start capacitor (80µF)	117U5015

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Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	609,8	2083	524,8	1,62	5,55	1,40	375,5	2,24	6,18	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	459,7	1570	395,6	1,27	4,33	1,09	362,2	2,19	5,72	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	354,2	1210	304,8	1,33	4,55	1,15	265,6	1,87	4,05	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	493,6	1686	424,8	1,36	4,64	1,17	363,1	2,20	6,84	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	659,7	2253	567,8	1,91	6,53	1,65	345,0	2,13	6,68	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	338,9	1157	291,6	1,25	4,28	1,08	270,4	1,89	3,80	opt
[°F]	-31	113	90	113										

Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-40	-40	258,9	884	222,8	1,11	3,78	0,95	233,9	1,78	2,89
cond. pressure	-35	-31	338,9	1157	291,6	1,25	4,28	1,08	270,4	1,89	3,80
pc= 45/113	-30	-22	430,1	1469	370,2	1,41	4,80	1,21	306,1	2,00	4,83
return gas temp.	-25	-13	536,4	1832	461,6	1,57	5,36	1,35	341,9	2,12	6,05
RGT= 32/90	-20	-4	661,6	2259	569,4	1,75	5,97	1,50	378,6	2,26	7,49
liquid temp	-15	5	809,3	2764	696,5	1,94	6,63	1,67	417,1	2,41	9,21
Tliq= 45/113	-5	23	1187,9	4057	1022,3	2,36	8,07	2,03	503,0	2,78	13,68
[°C / °F]	-40	-40	215,7	737	185,7	0,91	3,09	0,78	238,1	1,77	2,66
cond. pressure	-35	-31	287,2	981	247,2	1,03	3,52	0,89	279,0	1,90	3,55
pc= 55/131	-30	-22	367,3	1254	316,1	1,15	3,92	0,99	320,1	2,04	4,56
return gas temp	-25	-13	459,7	1570	395,6	1,27	4,33	1,09	362,2	2,19	5,72
RGT= 32/90	-20	-4	568,3	1941	489,1	1,40	4,78	1,20	406,1	2,36	7,11
liquid temp	-15	5	696,7	2379	599,6	1,54	5,25	1,32	452,8	2,55	8,76
Tliq= 55/131	-5	23	1028,4	3512	885,1	1,84	6,30	1,59	557,8	3,00	13,10